FIG. 1

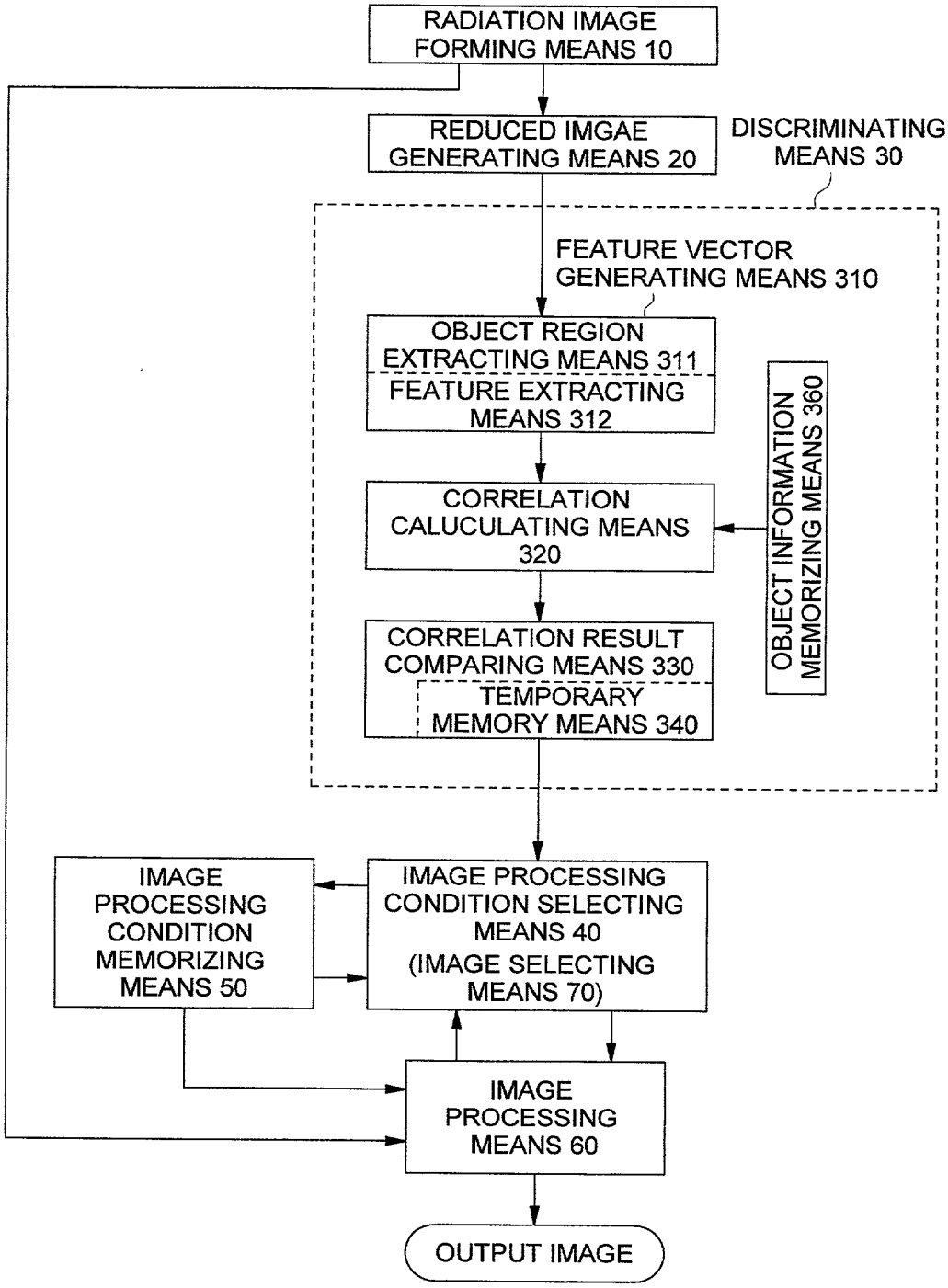
RADIATION IMAGE FORMING MEANS 10
REDUCED IMGAE GENERATING MEANS 20
DISCRIMINATING MEANS 30
FEATURE VECTOR GENERATING MEANS 310
OBJECT REGION EXTRACTING MEANS 311
FEATURE EXTRACTING MEANS 312
CORRELATION CALUCULATING MEANS 320
OBJECT INFORMATION MEMORIZING MEANS 360
CORRELATION RESULT COMPARING MEANS 330
TEMPORARY MEMORY MEANS 340
IMAGE PROCESSING CONDITION MEMORIZING MEANS 50
IMAGE PROCESSING CONDITION SELECTING MEANS 40
(IMAGE SELECTING MEANS 70)
IMAGE PROCESSING MEANS 60
OUTPUT IMAGE

FIG. 2 (a)

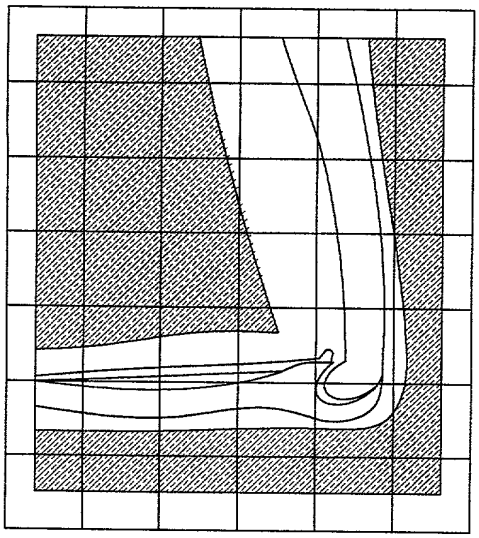

FIG. 2 (b)

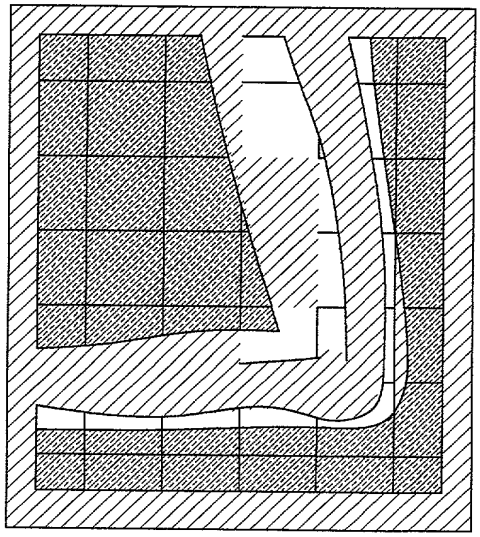

FIG. 2 (c)

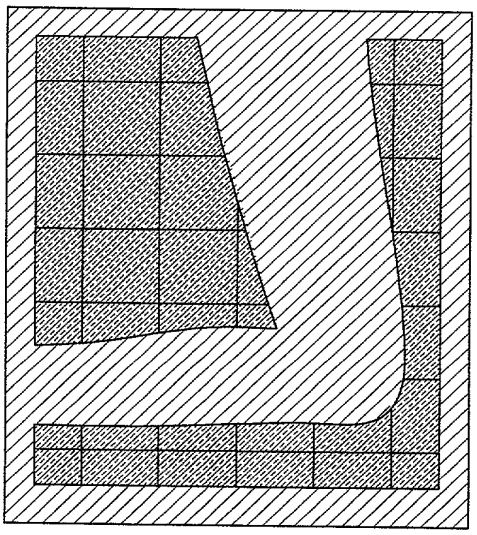

FIG. 2 (d)

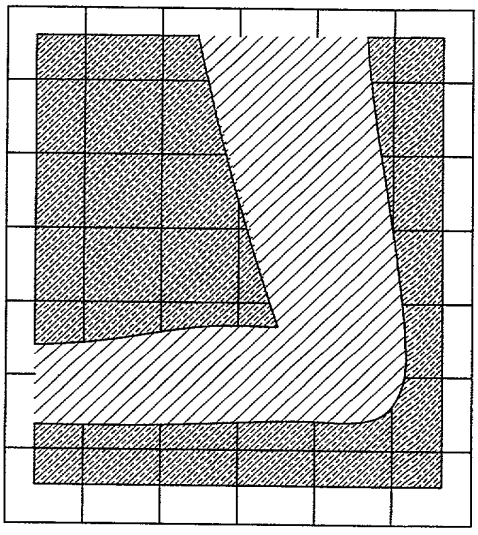

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FIG. 3

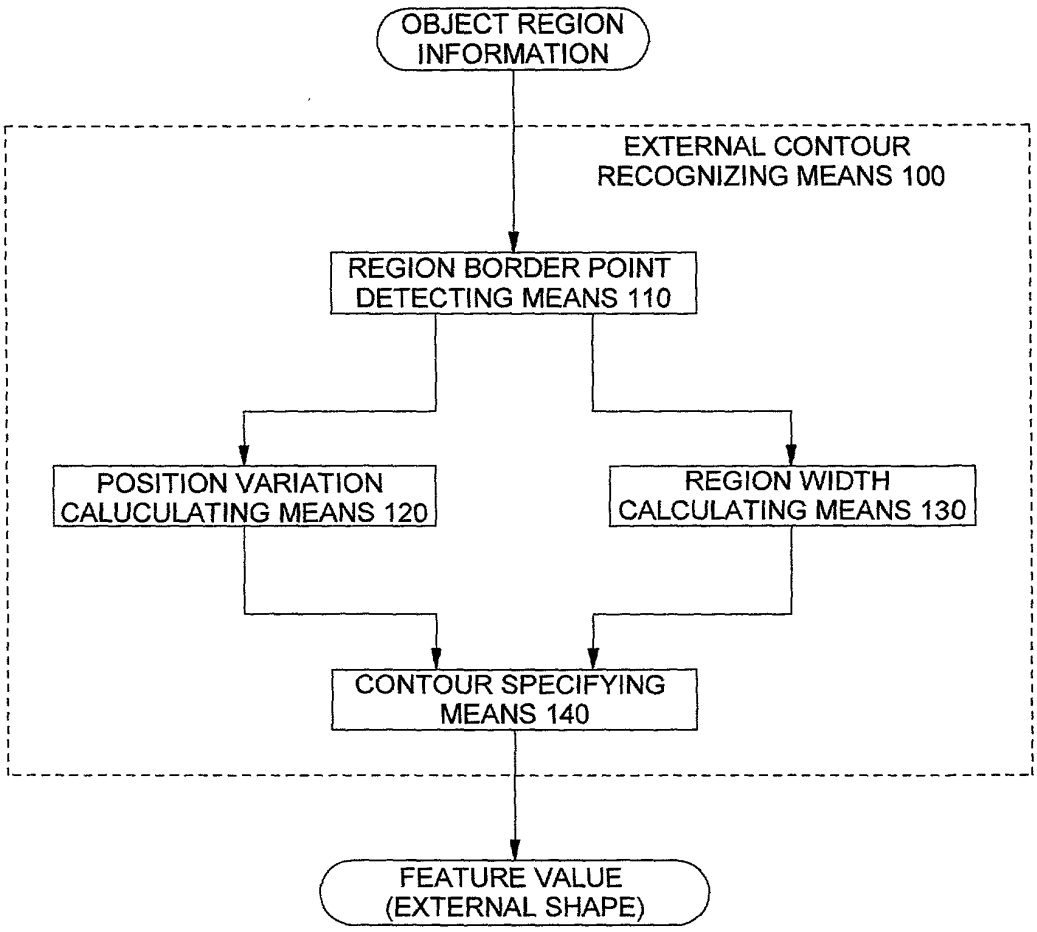
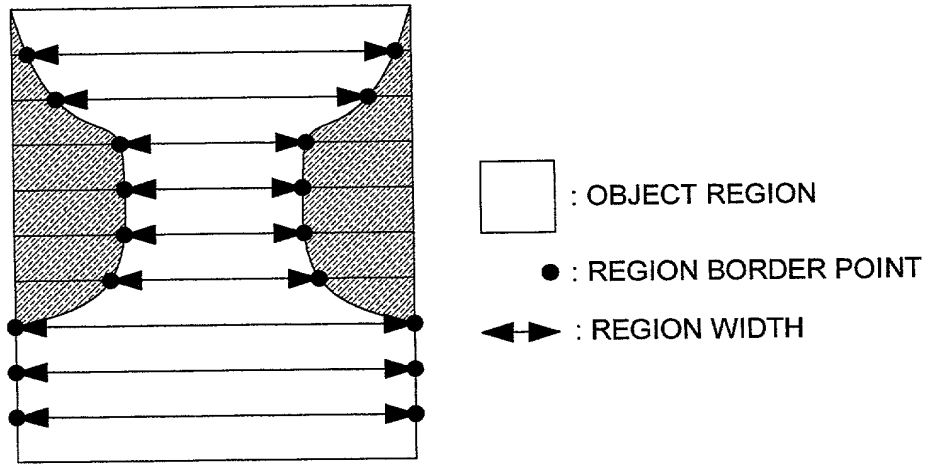

OBJECT REGION INFORMATION
EXTERNAL CONTOUR RECOGNIZING MEANS 100
REGION BORDER POINT DETECTING MEANS 110
POSITION VARIATION CALUCULATING MEANS 120
REGION WIDTH CALCULATING MEANS 130
CONTOUR SPECIFYING MEANS 140
FEATURE VALUE (EXTERNAL SHAPE)

FIG. 4



FAX 2003-0046-0360

FIG. 5

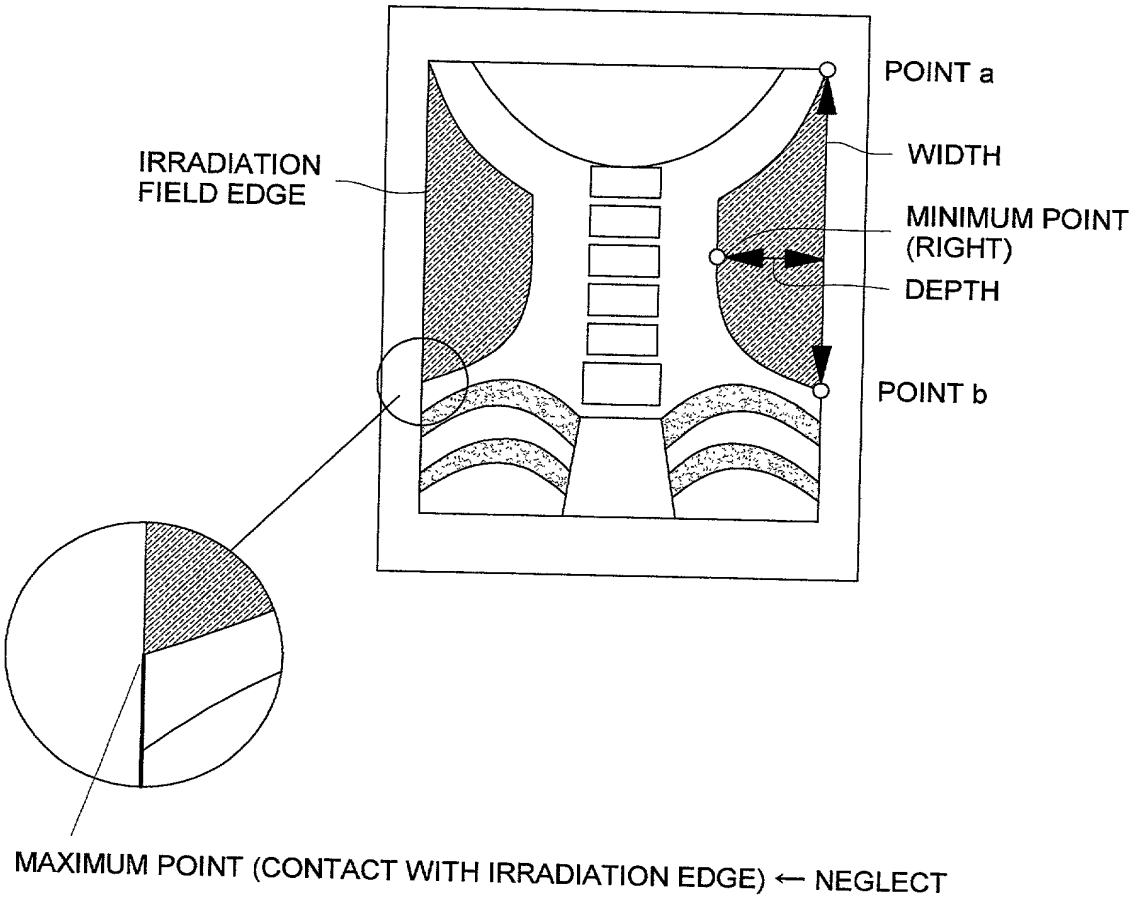

POINT a
WIDTH
IRRADIATION FIELD EDGE
MINIMUM POINT (RIGHT)
DEPTH
POINT b
MAXIMUM POINT (CONTACT WITH IRRADIATION EDGE) ← NEGLECT

FIG. 6 (a)

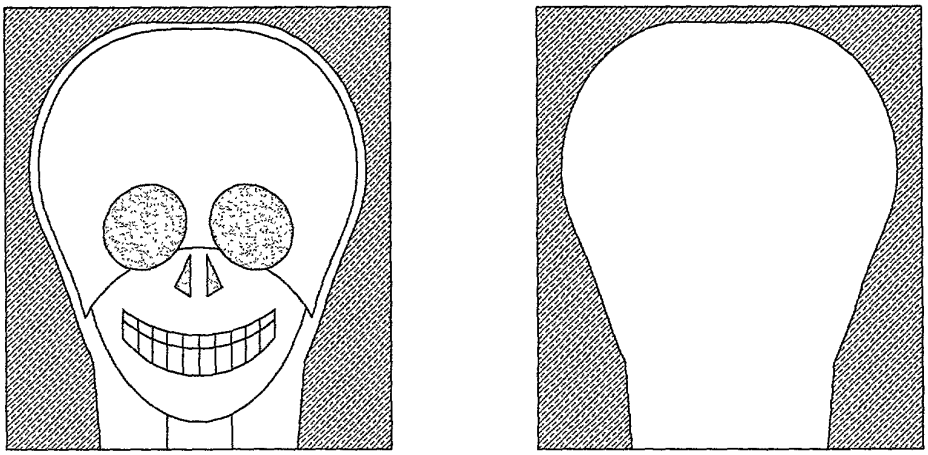


FIG. 6 (b)

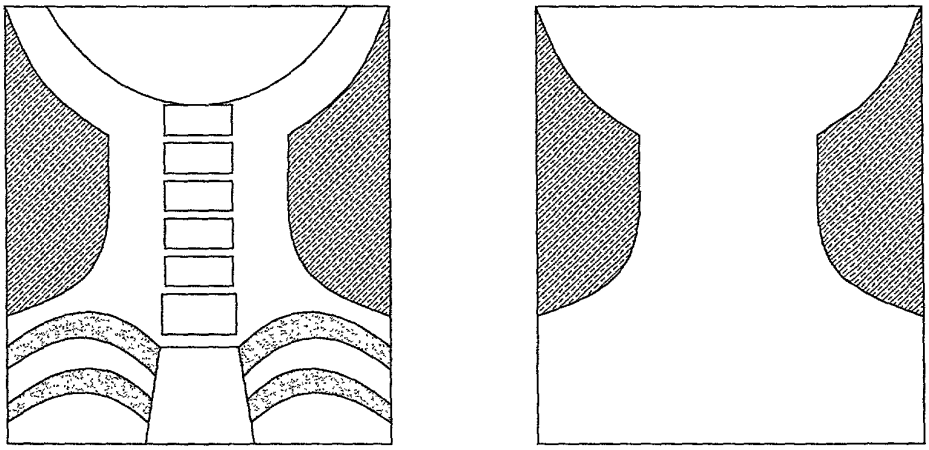


FIG. 7 (a)

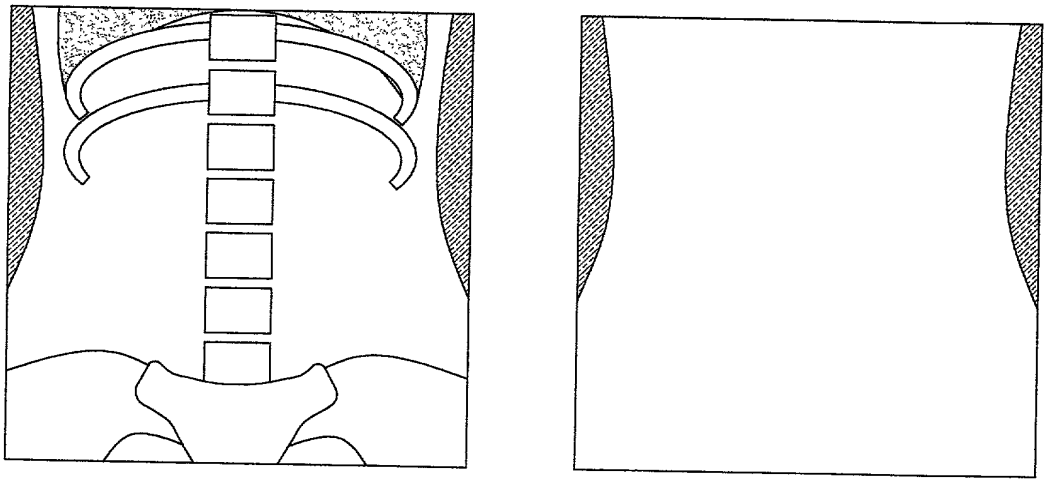


FIG. 7 (b)

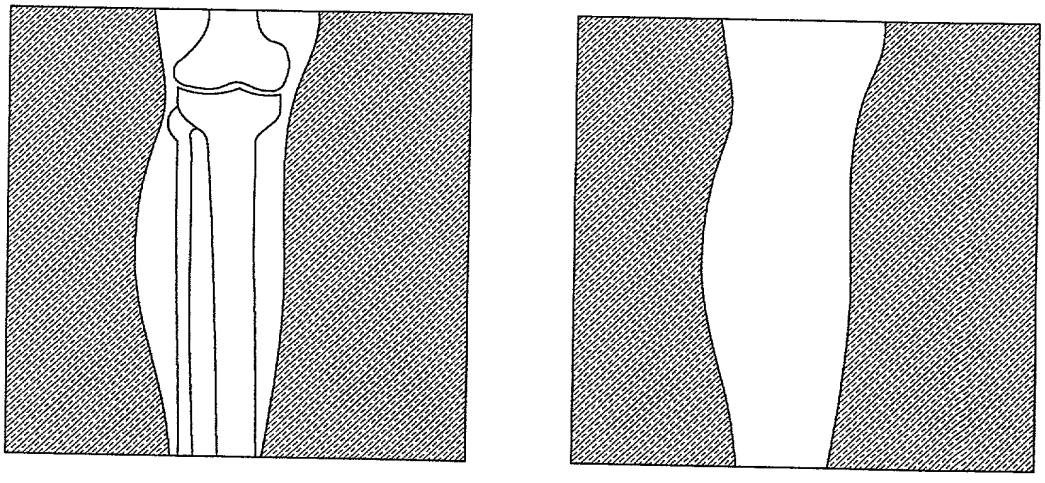


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FIG. 8 (a)

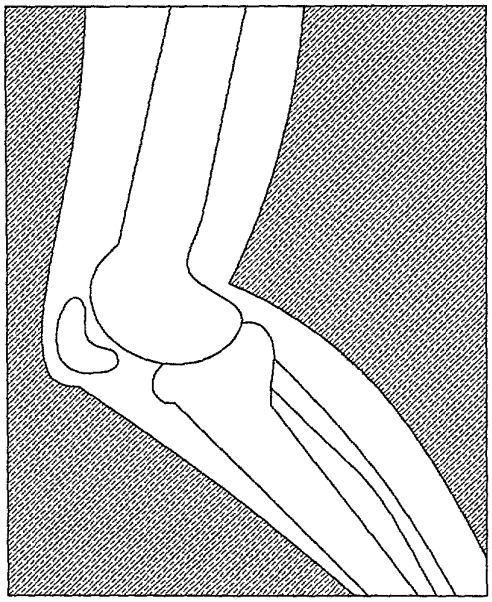

FIG. 8 (b)

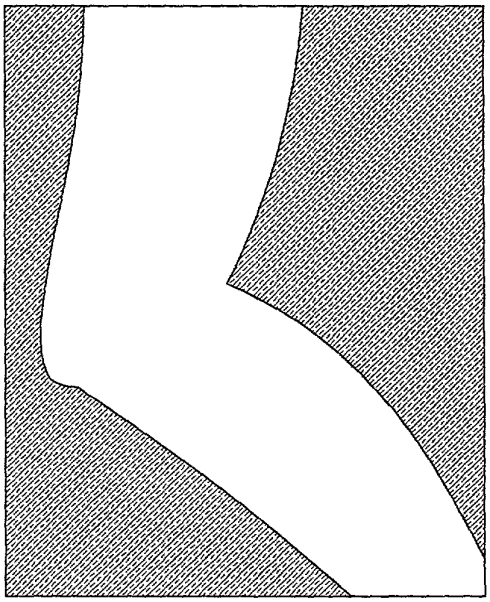

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FIG. 9

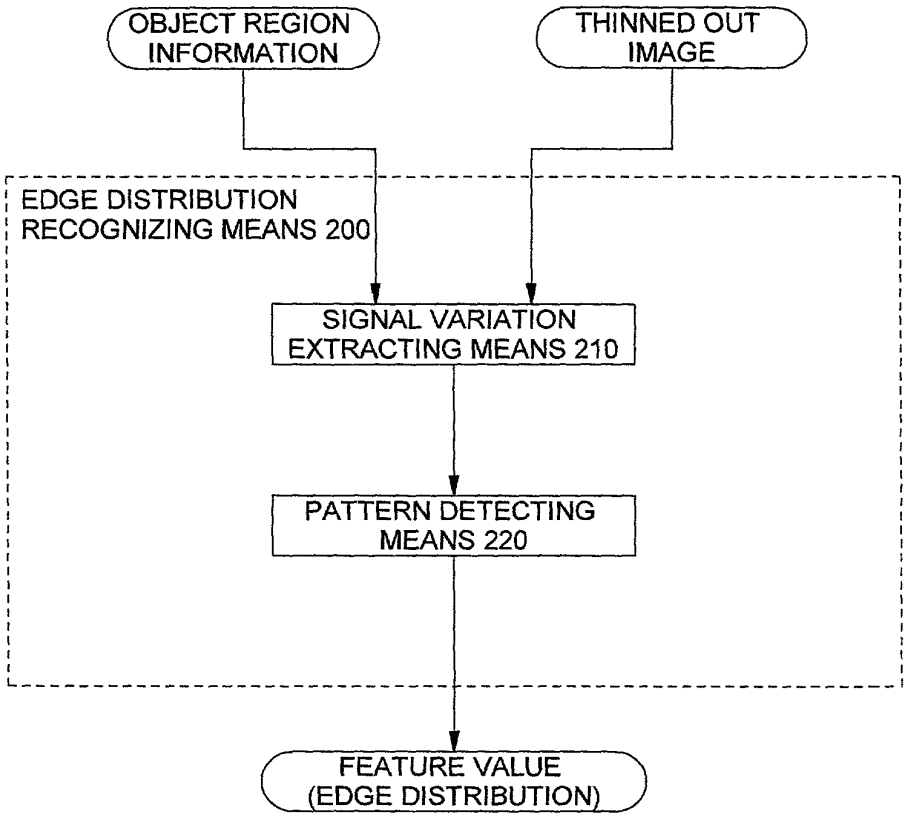

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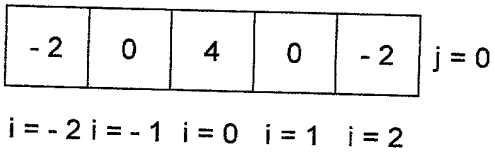
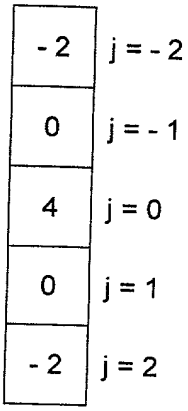
FIG. 10 (a)



n = 1

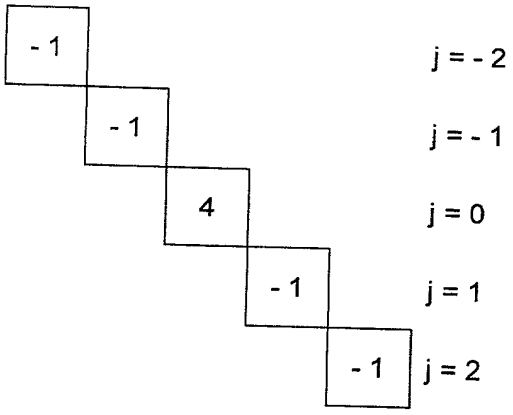
FIG. 10 (b)



i = 0

n = 2

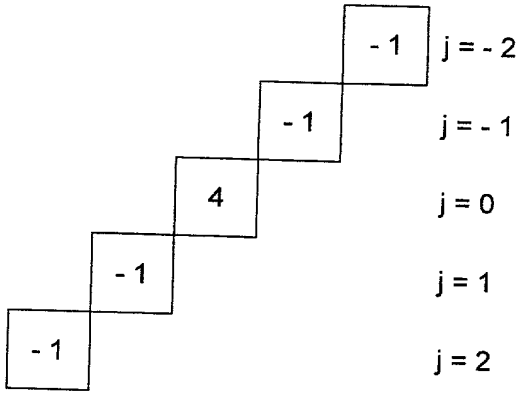
FIG. 10 (c)



i = -2 i = -1 i = 0 i = 1 i = 2

n = 3

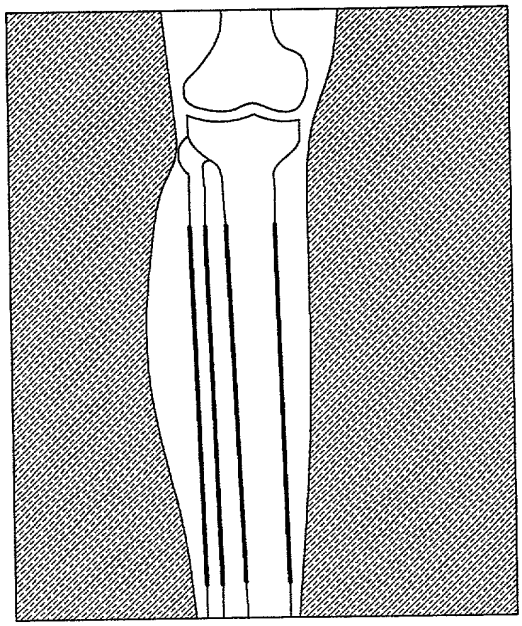
FIG. 10 (d)



i = -2 i = -1 i = 0 i = 1 i = 2

n = 4

FIG. 11 (a)



——— : CONTINUOUS EDGE

FIG. 11 (b)

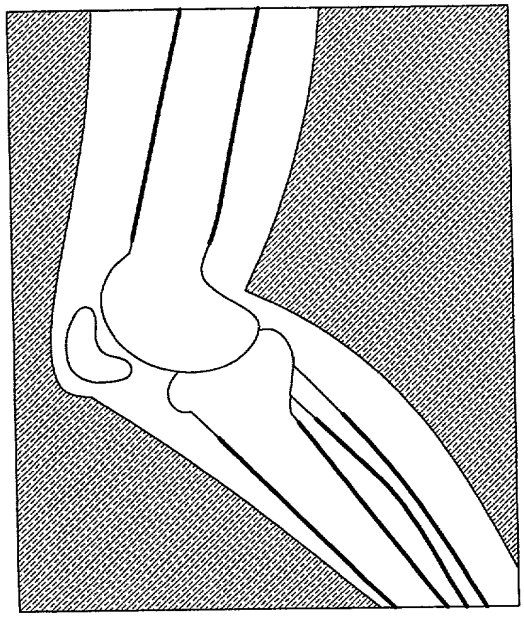


FIG. 12 (a)

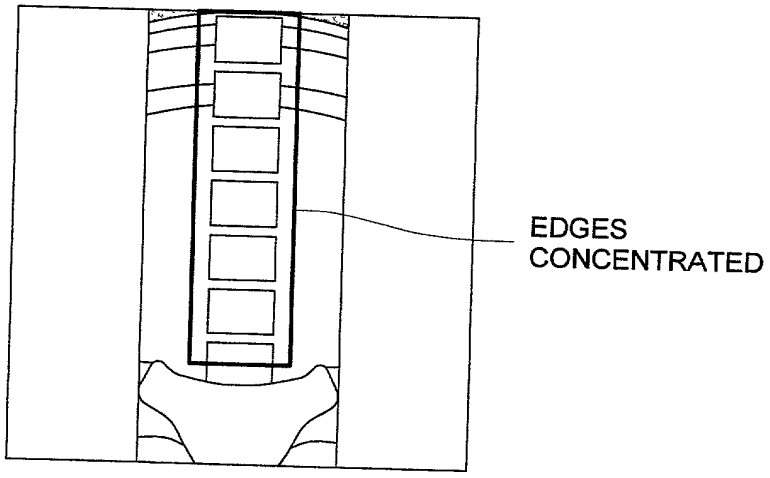


FIG. 12 (b)

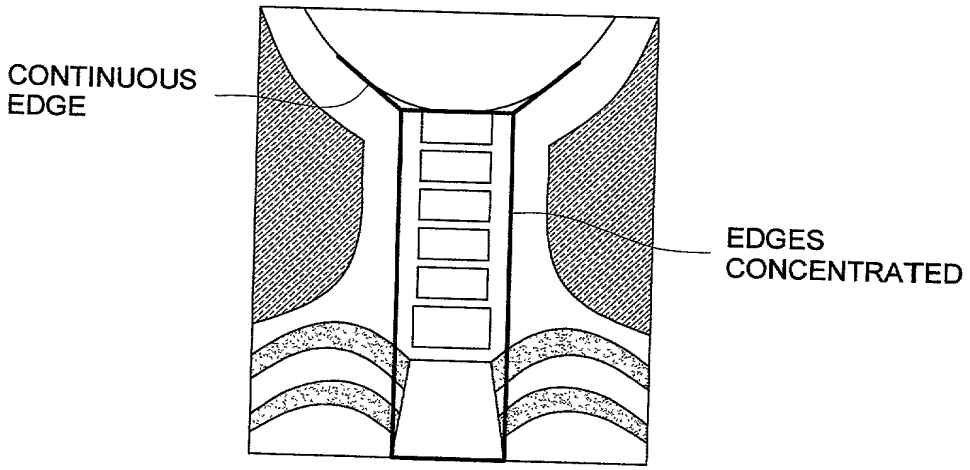


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FIG. 13

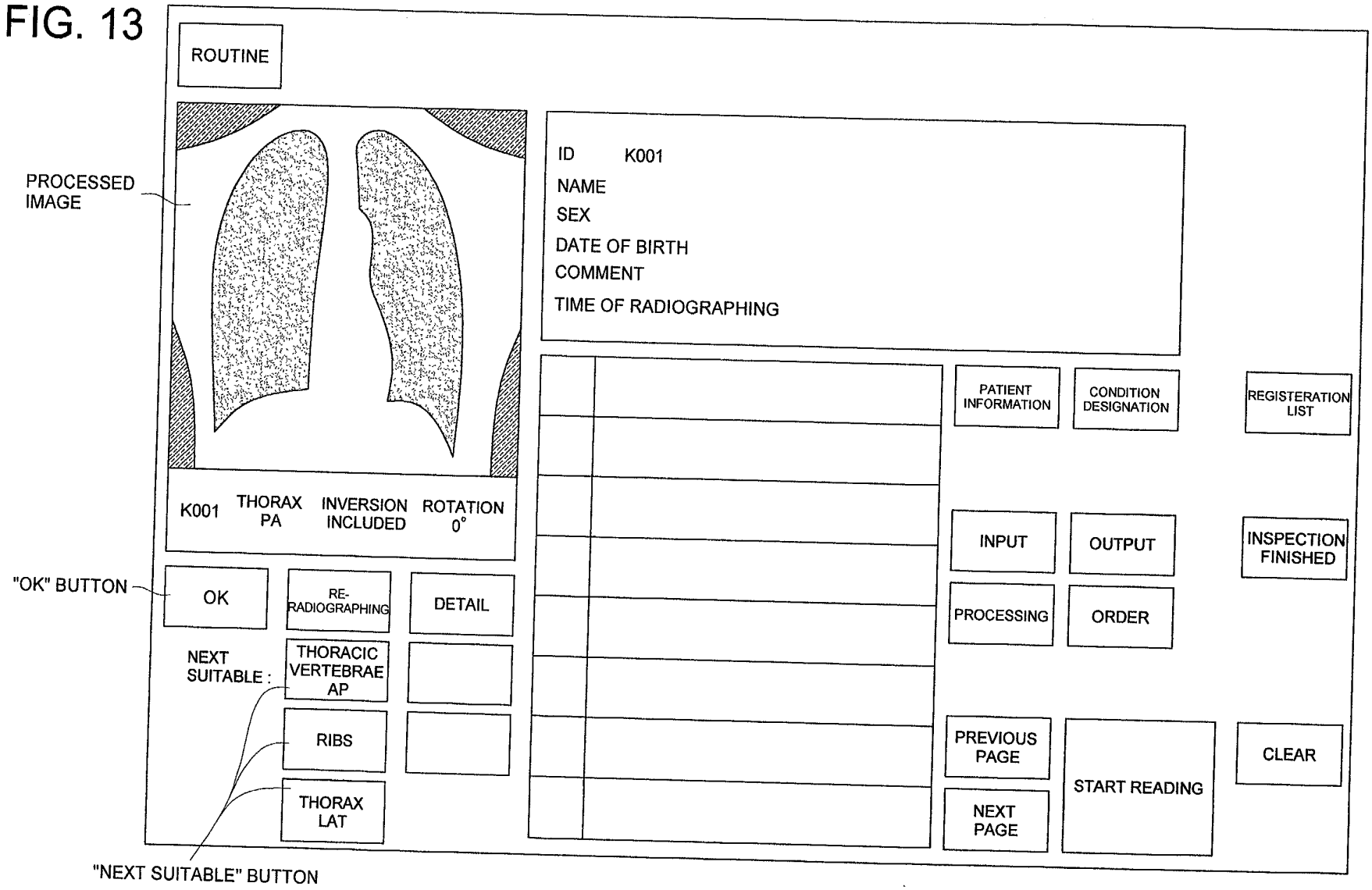

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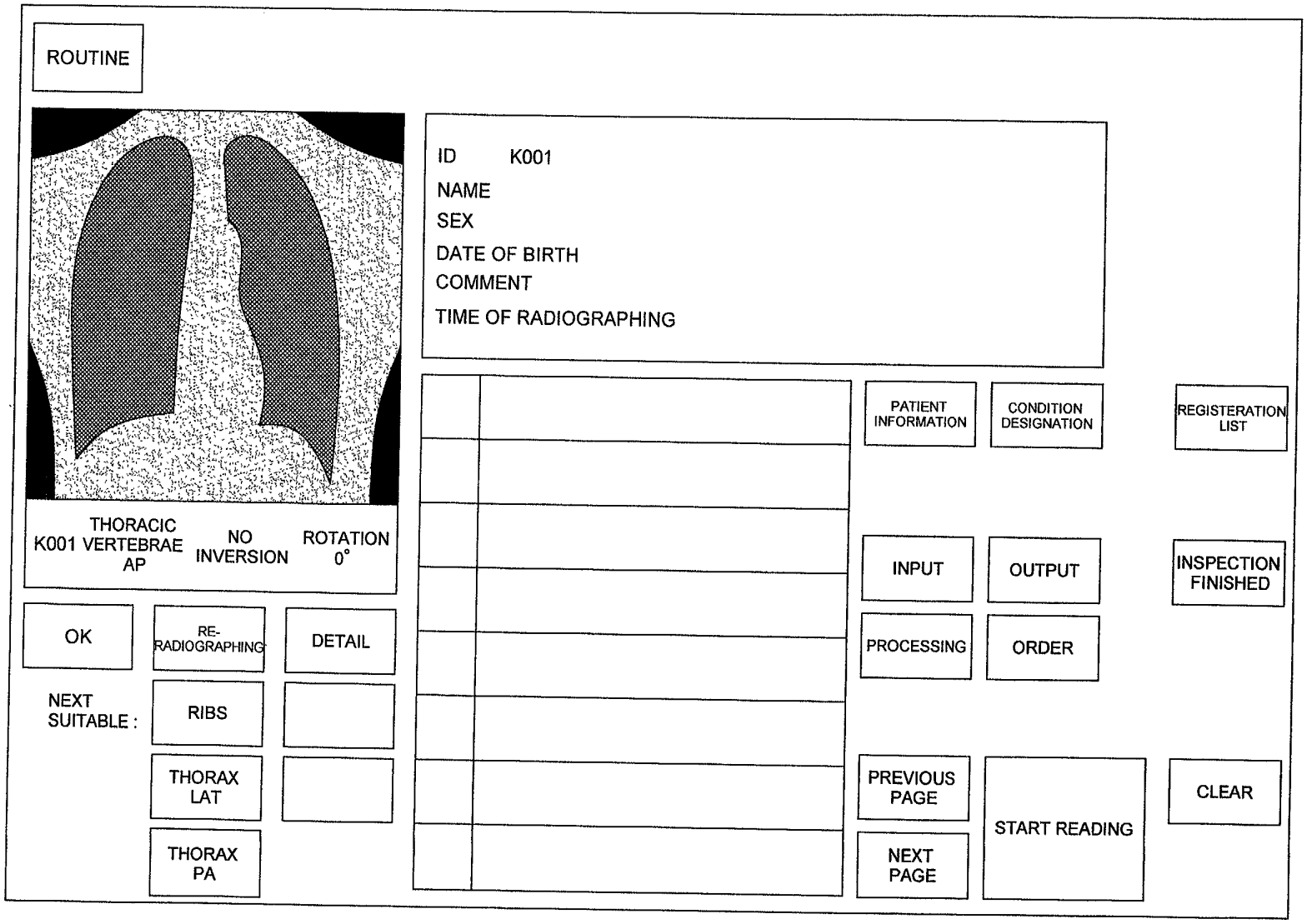
FIG. 14



JP2003-038468A

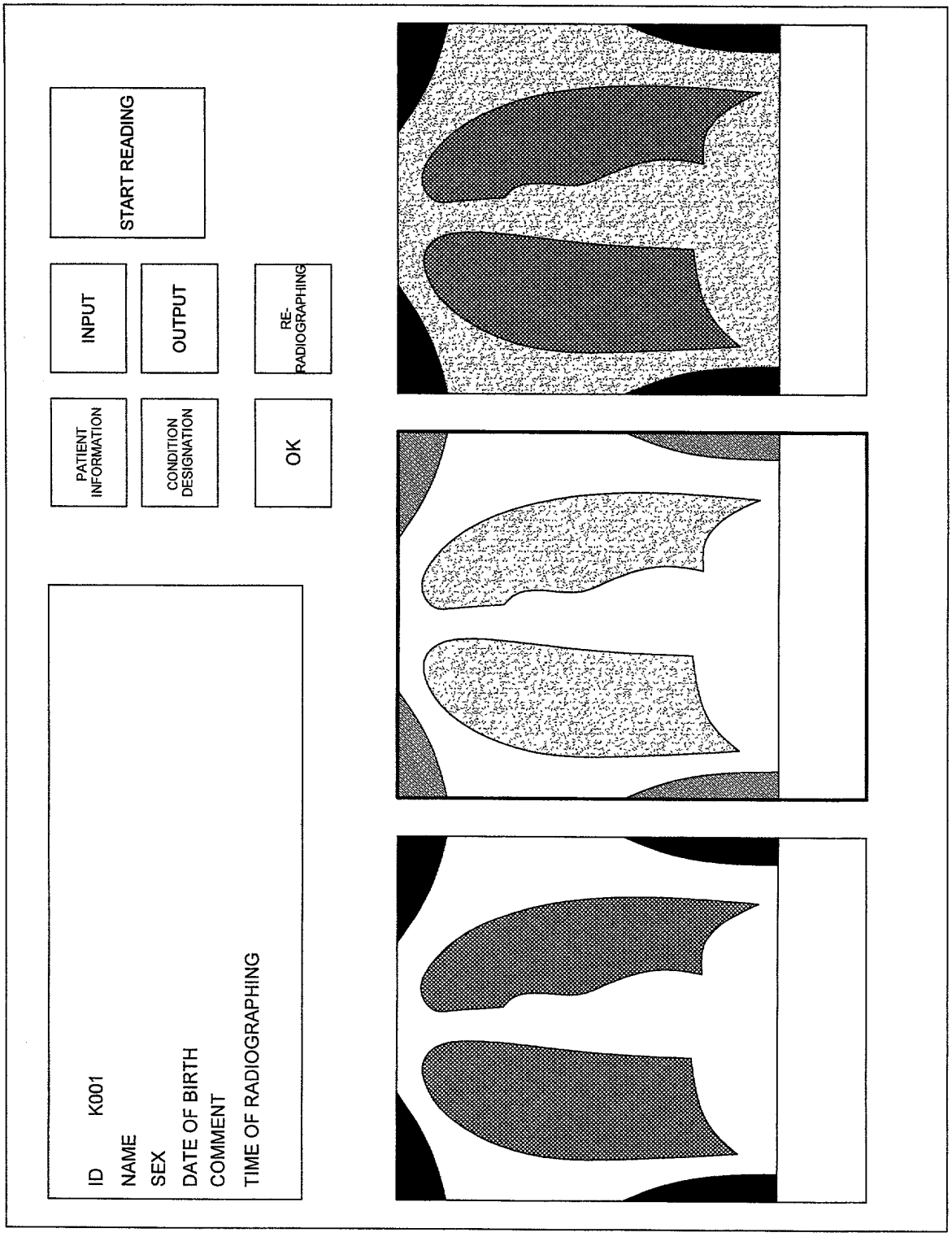



FIG. 15